

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-210446

(43)Date of publication of application : 31.07.1992

---

(51)Int.Cl.

C22C 27/06

C22C 1/00

C22C 30/00

---

(21)Application number : 02-410143

(71)Applicant : JAPAN STEEL WORKS LTD:THE

(22)Date of filing : 13.12.1990

(72)Inventor : KABUTOMORI TOSHIKI  
TAKAHASHI TOSHIO

---

## (54) MATERIAL FOR HYDROGEN STORAGE

### (57)Abstract:

PURPOSE: To obtain an inexpensive hydrogen occluding alloy which occludes a large amt. of hydrogen and is excellent in hydrogen occluding and releasing reactions by substituting Mo, or Mo and Fe for a part of Cr in a Ti-Cr type hydrogen storage alloy.

CONSTITUTION: An alloy having a compsn. represented by a general formula  $Ti_xCr_{2-y}Mo_y$  (where  $0.8 \leq x \leq 1.2$  and  $0 < y \leq 1.0$ ) or a general formula  $Ti_xCr_{2-y-z}Mo_yFe_z$  (where  $0.8 \leq x \leq 1.2$ ,  $y > 0$  and  $z \leq 1.0$ ) is refined, cooled and crushed. A hydrogen occluding alloy capable of simply occluding and releasing a large amt. of hydrogen is obtd. with inexpensive starting materials.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the  
examiner's decision of rejection or application  
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of  
rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

